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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/069,069		05/21/2002	Keiichi Yamamoto	0965-0380P	9015
2292	7590	01/24/2006		EXAMINER	
		KOLASCH & BIR	TRAN, LEN		
PO BOX 74 FALLS CH	•	A 22040-0747	ART UNIT	PAPER NUMBER	
, and the second se				1725	-

DATE MAILED: 01/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/069,069	YAMAMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Len Tran	1725				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 M	ay 2005.					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the ments is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1,3-17 and 19-21</u> is/are pending in the	e application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5)⊠ Claim(s) <u>16,17 and 19-21</u> is/are allowed.						
6)⊠ Claim(s) <u>1, 3-15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the $!$	Examiner.				
Applicant may not request that any objection to the o	- · ·	• •				
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents)-(d) or (f).				
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior	·	ed in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	A) [] Internation (200	(DTO 442)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· ·	atent Application (PTO-152)				
Paper No(s)/Mail Date	6)					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1, 5-10 are rejected under 35 U.S.C. 102(a) as being anticipated by Applicant's admitted prior art (pages 1-4).

Applicant's admitted prior art discloses in pages 1-4 a twin drum comprising opposite pairs of rollers, side gates, wherein the cooling drum is formed from a drum body having a shaft portion, and means for preventing various adverse influences due to differences in thermal expansion. In addition, applicant's admitted prior art discloses a drum is formed from, and divided into, a pair of shaft members having a shaft portions provided integrally therewith and being joined to end portions of the drum sleeve, and a core member (11) located between the shaft members and shrink fitted to an inner peripheral surface of the drum sleeve without contacting the shaft member. There are hot water channels, since the cooling water is turned into hot water upon heat exchange.

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Allowable Subject Matter

Claims 16-17, 19-21 are allowed.

3. Claims 3, 4, 11-15 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

The prior arts of record fail to teach shrink fit between the drum sleeve and the core

member supporting the drum sleeve from inside, a tightening margin at an intermediate portion

in a drum axis direction is greater than a tightening margin at the end portion.

Response to Arguments

4. Applicant's arguments filed 5/20/05 have been fully considered but they are not

persuasive.

Applicant argues that the prior art of record fail to teach the core does not contact the

shaft member. However, in figure 20 of applicant's admitted prior art, the core does not

contact the shaft.

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Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Len Tran
Primary Examiner
Art Unit 1725

January 21, 2006